

Where brightness and  
quality are essential for you

Specialty light sources for medical and  
industrial applications





# The right light for your application



### Microscopy

**Benefits**  
Illumination for microscopy visualization in medical and life science systems. Providing white light and a wide range of wavelengths for fluorescence applications. Optimized for surgical, diagnostic, and inspection microscopy.

- Discharge/Halogen/LED**
- HBO®
  - XBO®
  - HXP®
  - Halogen lamps without reflector
  - ITOS® Phaser 3000



### Surgical Lighting

**Benefits**  
Instant brilliant light and light output over life with a constant color temperature and excellent color rendering.

- |                |                 |
|----------------|-----------------|
| <b>Halogen</b> | <b>LED</b>      |
| - 64291 XIR®   | - ITOS® ME      |
| - 64292 XIR®   | - ITOS® ME PLUS |
| - 64668 XIR®   | - ITOS® SL      |
| - 64638 HLX®   |                 |
| - 64642 HLX®   |                 |
| - 64643        |                 |
| - 64647        |                 |
| - 64650        |                 |



### Analyzing

**Benefits**  
Effective illumination for analyzing and diagnostics to identify the molecular structure of a compound or to determine its purity. The filament with tight tolerances provides an excellent and uniform illumination of small areas with constant and brilliant light over the entire lifetime. Customized solutions on request. Optimized for analyzing and diagnostics.

- Discharge/Halogen**
- HBO®
  - XBO®
  - HXP®
  - 64258
  - 64259
  - 64623 HLX®
  - Halogen modules



### Sterilization with UV Light

**Benefits**  
Long life and high germicidal efficiency for surface sterilization, air and water purification.

- Discharge**
- PURITEC® HNS®



### Medical Fiber Optics

**Benefits**  
Illumination of human organs or tissue containing a well-balanced spectral characteristic and high color rendering. Focused light beam for easy and efficient coupling into light guides with small diameters. Optimized for endoscopy and surgical headlamps.

- Discharge/Halogen/LED**
- XBO®
  - 64627 HLX®
  - 64634 HLX®
  - 64653 HLX®
  - ITOS® Phaser 3000



### Bilirubin therapy lighting

**Benefits**  
As part for medical devices OSRAM BLUE is the perfect solution for the treatment of jaundice. Its compact design is suitable for mobile equipment and hand-held luminaires. It works emission-free and with low energy consumption.

- Discharge**
- DULUX® S BLUE 9W/71
  - DULUX® L BLUE 18W/71
  - L BLUE 18W/71

# The right light for your application



### Wellness and Therapy Lighting

**Benefits**

Instantly emit full thermal output as soon as switched on. Pleasant and even glow thanks to pigmented red filter. Optimum deep-acting effect thanks to bundling with internal parabolic reflector. Optimized for body care, wellness, cosmetic beauty treatment, and relaxation zones.

**Incandescent**

- THERA RED 150W 240V PAR38
- THERA RED 250W 240V HG



### Curing: Adhesives and Composites

**Benefits**

Exposure of light-activated composites and adhesives. High irradiation level required for short curing times in dental and industrial applications.

**Discharge**

- HBO®
- HXP®

**LED**

- DO BDL 8W M

**Halogen**

- 64613
- 64617/64617S
- 64624

### Halogen lamps

**Halogen HLX® lamp family**



- HLX® tungsten halogen low-voltage lamp with or without a reflector
- Xenon-gas-filled lamps have up to 10 % higher luminous efficacy than standard lamps
- Instant light
- Dimmable
- Mercury-/ Ozone-free

**Infrared-coated capsule XIR®**



- Tungsten halogen capsule filled with xenon gas and in addition with infrared (IR) coating on the glass bulb for maximum energy efficiency
- IR capsule produces up to 30 % higher luminous efficacy than standard lamps with the same characteristics (wattage and lamp life)
- Mercury-/ Ozone-free

**Halogen Lamp Modules – Customized Solutions**



- Various lamp types can be combined with a customized lamp holder
- Automatic computer-controlled production process with very tight tolerances
- Lamp is optimally adjusted in the system after the replacement, no readjustment necessary
- Special customized solutions on request

### Incandescent lamps

**THERATHERM®**



- THERATHERM® lamps are special short-wave infrared lamps (IR-A)
- Its intensive infrared radiation stimulates the cells and organs in the body
- These lamps are therefore ideal for beauty treatments at home or in clinics

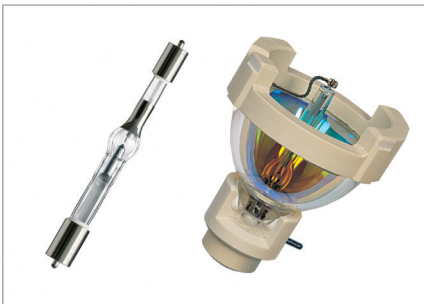
### Discharge lamps

**XBO® 75 W, 100 W, 150 W**



- Xenon discharge lamp for DC operation
- Color rendering index > 95
- Short arc
- Hot restart

**Optimized UV Light HBO®**



- Mercury discharge lamp for DC/ AC operation at constant power
- Short arc



Discharge lamps

Optimized UV & Blue Light with Long Life HXP® R 120 W UV



- Mercury discharge lamp for AC operation at constant power
- Short arc
- Long average life: up to 2.000 hours
- Focus diameter of approx. 5 mm
- Reflector of HXP® R 120 W UV coated for maximum reflection in 320 ... 500 nm range
- ECG / lamp system

UV, Blue & White Light with Long Life HXP® R 120 W VIS, 200 W



- Mercury discharge lamp for AC operation at constant power
- Short arc
- Long average life: up to 2.000 hours
- Focus diameter of approx. 5 mm
- Reflector coated for maximum reflection in UV, blue and visible spectral range
- ECG / lamp system

Excellent Xenon Light XBO® 100 W, 180 W, R 300 W



- Xenon discharge lamp for DC operation
- Color rendering index > 95
- Short arc
- Focus diameter of approx. 5 mm
- Reflector coated for maximum reflection in visible spectral range
- Ozone-free
- Hot restart

Discharge lamps

Linear PURITEC® HNS® UV-C Light



- Efficient at disinfecting air, water and surfaces
- Effective and environmentally friendly disinfection without chemicals
- Low mercury content
- Long lifetime thanks to special high-quality coating of the glass bulb
- 4 W - 75 W

Compact PURITEC® HNS® UV-C Light



- Efficient at disinfecting air, water and surfaces
- Effective and environmentally friendly disinfection without chemicals
- Low mercury content
- Long lifetime thanks to special high-quality coating of the glass bulb
- 5 W - 90 W

OSRAM BLUE lamps



- Low mercury content
- Long lifetime thanks to special high-quality coating of the glass bulb
- High quality

Modules for luminaries

ITOS® ME/W LED Module



- LED based central light engine for medical examination lighting fixture
- Ec 45 Klux
- Color temperature of 4500 K
- Color rendering index up to 94
- High rendering index for red R9 > 90

ITOS® ME PLUS/W LED Module



- LED based central light engine for medical examination and surgical lighting fixture
- Ec 120 Klux
- Central illumination (Ec) with standard reflector: > 160 Klux
- Color temperature of 4500 K
- Color rendering index up to 94
- High rendering index for red R9 > 90
- Also available with integrated zoom function

ITOS® SL/W LED Module



- LED based central light engine for surgical lighting fixture
- Ec 160 Klux
- Integrated zoom function
- Color temperature of 4500 K
- Color rendering index up to 94
- High rendering index for red R9 > 90

Retrofits

ITOS® O-03100 LED Light Source for Welch Allyn Otoscopes



- Delivers bright light for optimized visualization of outer and middle ear
- Significantly lower electrical consumption than halogen lamps
- Operating lifetime: up to 25.000 hours
- CRI > 90 ensures great color rendering
- Stable color temperature throughout the entire dimming range and the entire lifetime

Modules for luminaires

Curing Blue Light Power LED DO BDL 8 W M



- High-power blue LED light
- Typical radiant power: 1.5 W
- Dimmable
- Optical efficiency: 28%
- Small required mounting space
- Viewing angle: 140°

Modules for fiber optic

ITOS® PHASER 3000



- Laser/LED-based module with high brightness
- Up to 20 times longer lifetime\*
- No UV/IR emissions\*
- Low energy consumption\*
- Up to 2-times more light at distal end of endoscope\*\*

\* compared to Xenon lamps

\*\* compared to LED-solutions

If you are interested in learning more about OSRAM medical product portfolio, please visit our corporate website:

**Medical applications**

[www.osram.com/medical](http://www.osram.com/medical)

**PHASER technology**

[www.osram.com/phaser](http://www.osram.com/phaser)

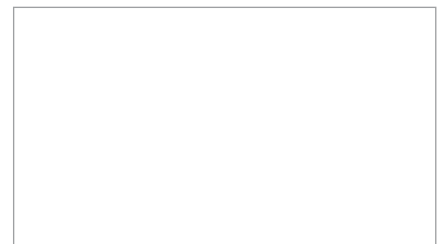
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*OSRAM medical products are available here*